Research Funding at Alberta's Comprehensive Academic and Research Institutions

2007-08

- Government of Alberta
- April 2010

Alberta

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Report Preface

The Research Funding at Alberta's Comprehensive Academic and Research Institutions report is produced annually by the Research Capacity Planning branch of Alberta Advanced Education and Technology. Data derived from the report are compiled and used as a performance measure in *Measuring Up,* a component of the Government of Alberta's Annual Report, and the Business Plan and Annual Report for the Ministry of Advanced Education and Technology (AET).

The report provides historical data and analysis of sponsored research revenue data received by Alberta's comprehensive academic and research institutions. These institutions include Athabasca University, and the Universities of Alberta, Calgary and Lethbridge. The data collection process has been adjusted in order to provide and analyze data that are consistent with the overall sponsored research revenue totals reported by the institutions to the Canadian Association of University Business Officers (CAUBO). Previous reports described a 10 year span of historical data, but given requirements associated with restating the data in accordance with the new process, this report details a four year span of data, extending back to 2003-04.

As a result of the transition of Alberta's research and innovation system to Alberta Innovates, there have been recent changes to the organizational structure of some funding agencies. Given that the report details historical data for the period between 2003-04 and 2007-08, the names of the Government of Alberta/Alberta Science and Research Authority entities used are those prior to the transition to Alberta Innovates. The former names of these agencies will continue to be used until the 2010 reporting year.

Financial Note: Sponsored research revenues are those funds garnered outside of regular university operating grants. These research contracts, grants, and donations are used to support the operating and infrastructure costs of research activities at the universities. The data in this report are provided directly by the comprehensive academic and research institutions and are derived from a combination of audited financial schedules and supplemental financial reports.

Fostering Research Excellence

The Government of Alberta supports the key role that university research plays in shaping Alberta's future as a province with a vibrant, diversified, and sustainable economy. Within the *Government of Alberta Strategic Plan: 2007-10*, investing in research excellence at Alberta post-secondary institutions is recognized as a way to further enhance Alberta's position as a world leader in innovation. Strengthening the capacity and capability of Alberta's research system will assist in attracting and retaining leading researchers who will contribute to building Alberta's next generation economy, one that is knowledge based, globally competitive, and resilient.

Alberta's comprehensive academic and research institutions receive research funding from a variety of sources, including federal and provincial funding programs, industry, non-profit, endowments, and even international jurisdictions, a testament to the competitiveness of the research capabilities in the province. This report presents an overview of research funding received by these Alberta institutions.

Executive Summary of Statistics

Sponsored research revenue to Alberta's comprehensive academic and research institutions has increased by 22.2% from 2003-04 to 2007-08, an increase that is mainly attributable to strong provincial and federal government investments in enhancing research excellence and capability within the province.

Since 2006-07, sponsored research funding has increased by 5.8% to a total of $760.9 million (Figure 1). In 2007-08, contributions from the Government of Alberta, industry, and non-profit sources increased, while funding from federal government, other government, endowment and other income sources decreased.

The Government of Alberta funding for research at Alberta's comprehensive academic and research institutions has increased 39.0%, from $202.0 million in 2003-04 to $280.9 million in 2007-08. An important component of the provincial government's support for research in 2007-08 is the $96.3 million directed to research-related capital initiatives. Funding from the Government of Alberta was a key contributor to the increase in total sponsored research revenue garnered by Alberta institutions, shown in Figure 2.

Since 2003-04, the federal government's annual funding to Alberta's comprehensive academic and research institutions has increased by $19.3 million, or 7.6% (Figure 2). In 2007-08, Alberta institutions garnered 4.9% less funding from federal government sources than in 2006-07, which equated to a decrease of $14 million (Figure 2). The decrease in federal funding is mainly attributed to the reduction in funding from the Canada Foundation for Innovation (CFI), a result of year-to-year funding fluctuations due to competition cycles. Funding from the Natural Sciences and Engineering Research Council (NSERC) and the Social Sciences and Humanities Research Council (SSHRC) has shown modest increases, while funding from the Canadian Institutes for Health Research (CIHR) remained at a similar level as in 2006-07.

Alberta's comprehensive academic and research institutions have garnered increasing amounts of research funding from the non-profit sector, growing from $46.5 million in 2003-04 to $64.6 million in 2007-08 (Figure 2), an increase of 39.0%. In 2007-08, industry sources provided $108.1 million in research funding, an increase of 55.1% since 2003-04 (Figure 2).

The University of Alberta and the University of Calgary also use endowment funding to support research activities at their institutions. Funding for research from institutional endowment sources is variable from 2003-04 to 2007-08, with a high of $29.5 million reported in 2006-07, and a low of $11.4 million reported in 2007-08 (Figure 2).

The Alberta Heritage Foundation for Medical Research (AHFMR) has supported Alberta's comprehensive academic and research institutions with a total of $247.2 million from 2003-04 to 2007-08. In 2007-08, the AHFMR provided $52.6 million to the institutions included in this report.

From 2003-04 to 2007-08, Alberta Ingenuity has provided $74.9 million in support of science and engineering research activities at Alberta's institutions. This number has grown from a total of $7.4 million in 2003-04 to $23.5 million in 2007-08.

Note: All figures are based on information provided in the accompanying tables at the end of the report. Tables 1-4 summarize the reported revenues and sources.

Alberta Advanced Education and Technology's Support of Research

The Government of Alberta has enhanced the research capacity at Alberta's comprehensive academic and research institutions by investing in world-class research facilities, and in Alberta researchers, enabling the province to attract and retain highly skilled workers to build and sustain the knowledge economy. In 2007-08, Alberta continued to build research and innovation capacity in key areas through contributions from Advanced Education and Technology, the five Alberta Science and Research Authority (ASRA) Research Institutes, the Informatics Circle of Research Excellence (iCORE), the Alberta Heritage Foundation for Medical Research (AHFMR), and Alberta Ingenuity.

Note on Sources/Names: As the report details historical data for the period between 2003-04 and 2007-08, the names of the Government of Alberta/Alberta Science and Research Authority Institutes are those prior to the transition to Alberta Innovates. The former names of these agencies will continue to be used until the 2010 reporting year.

Operating Grant

Advanced Education and Technology provides an operating grant to the comprehensive academic and research institutions which includes funding for teaching, research and administrative activities. The 2007-08 operating grants to Alberta's four comprehensive academic and research institutions totaled $846.5 million.

Performance Envelope

The Performance Envelope was implemented in 1997 to recognize and reward the performance of post-secondary institutions and to encourage and support continuous improvement. The research component of Alberta Advanced Education and Technology's Performance Envelope provides additional funding based on the extent to which Alberta institutions meet agreed upon research targets. In 2007-08, Alberta's comprehensive academic and research institutions received $7.7 million from the Performance Envelope, of which $1.9 million recognized performance in research. A portion of this funding is expended on research activities.

Support for Research Capacity

In this reporting period, Advanced Education and Technology administered two key programs to support building research capacity at Alberta's post-secondary institutions and leverage federal funding for key Alberta initiatives. The Alberta Science and Research Investments Program (ASRIP) and the Small Equipment Grants Program (SEGP) are competitive infrastructure and equipment funding programs which support quality and research excellence, build innovation capacity, and promote initiatives of strategic benefit to Alberta. In 2007-08, the ASRIP launched a competition to provide multi-disciplinary teams with research equipment in support of research excellence and strategic initiatives. During the same time period, the SEGP awarded a combined total of $2.8 million in research equipment grants to the University of Alberta, University of Calgary, and University of Lethbridge.

Alberta Agricultural Research Institute

The Alberta Agricultural Research Institute's (AARI) mission is to support the growth of a dynamic, and sustainable life sciences sector in Alberta by leading the agri-based industry's research, development, and deployment strategies and outcomes. The AARI's vision is to be the Alberta leader responsible for ensuring that agricultural research, development, and deployment delivers innovative solutions to the marketplace. During 2007-08, the AARI committed $4.9 million to support research in three strategic theme areas: bioproducts, sustainable production, and health and nutrition. As of January 2010, AARI has been transitioned to Alberta Innovates – Bio Solutions.

Alberta Energy Research Institute – University Research Program

The Alberta Energy Research Institute's (AERI) mandate is to promote research, technology evaluation, and technology transfer related to the development of energy sources of importance to Alberta. In 2007-08, the AERI invested in university research in its six core priority areas: Clean Carbon/Coal, Improved Recovery, Bitumen Upgrading, CO_2 Management, Water Management, and Renewable and Alternate Energy. Research at Alberta's universities contributes to all six areas through basic research, training, fundamental knowledge acquisition, and via increasing linkages between academia and industry.

The AERI invested a total of $10,044,435 for university research in 2007-08, with the University of Alberta receiving $8,852,432, and the University of Calgary receiving $1,192,003. Of note, the Centre for Oil Sands Innovation (COSI), a project based at the University of Alberta, received support from the AERI in 2007-08 for research activity

undertaken over five years. As of January 2010, AERI has been transitioned to Alberta Innovates – Energy and Environment Solutions.

Alberta Forestry Research Institute

The Alberta Forestry Research Institute's (AFRI) mission is to enhance the contribution of innovation and research to the economic, environmental and community sustainability of Alberta and to promote the global competitiveness of its forest sector as a key contributor to Alberta's growing bioeconomy.

During 2007-08, $1.0 million was committed to the University of Alberta for the creation of a Chair in nanotechnology applications for the forest sector. The AFRI also contributed $450,000 to the University of Calgary in support of a Chair in Life Cycle Analysis in the School of Environmental Design. The AFRI continued its support for research at Alberta universities, including activities associated with the federal Networks of Centres of Excellence Sustainable Forestry Management Network, mountain pine beetle genomics, and the establishment of two research chairs in the areas of climate change and hardwood genetics. As of January 2010, AFRI has been transitioned to Alberta Innovates – Bio Solutions.

Alberta Life Sciences Institute

The Alberta Life Sciences Institute (ALSI) focuses on the life sciences opportunities that can be found at the convergence of the traditional health, agriculture, energy, and forestry sectors. The ALSI works collaboratively with other government departments, industry, stakeholders, and research institutions to enhance and expand Alberta's life sciences capacity.

During 2007-08, $27.5 million was invested in the four strategic themes of the ALSI: Bioproducts Innovation, Health Innovation, Resource Management Innovation, and Building the Base. The investment includes $25 million for the Alberta Water Research Institute. As of January 2010, ALSI has been transitioned to Alberta Innovates – Bio Solutions.

Alberta Information and Communications Technology Institute

The mandate of the Alberta Information and Communications Technology Institute (AICTI) is to support the development and growth of the information and communications technology (ICT) sector in Alberta by providing strategic advice and policy guidance to government on public funding and investments in ICT-related research and innovation. The Institute works closely with other departments, agencies, and institutions in developing advice on mechanisms to stimulate the development, application, and commercialization of

new knowledge, technologies, and products. The Institute also provides advice to support research capacity, particularly in terms of highly qualified people and research infrastructure. For 2007-08, the AICTI committed $2.8 million to three key areas: research and development, infrastructure, and technology commercialization. As of January 2010, AICTI activities have been retained in the Department of Advanced Education and Technology.

Informatics Circle of Research Excellence (iCORE) Inc.

The iCORE Inc. is a not-for-profit corporation owned by the Government of Alberta that supports the innovation-based economy of the province by attracting world-class information and communications technology researchers and graduate students to Alberta. The iCORE's primary function is to attract, retain, educate, and support exceptional ICT researchers and students. In 2007-08, iCORE provided $11 million in support of research capacity in Alberta. As of January 2010, iCORE has been transitioned to Alberta Innovates – Technology Futures.

Alberta Heritage Foundation for Medical Research

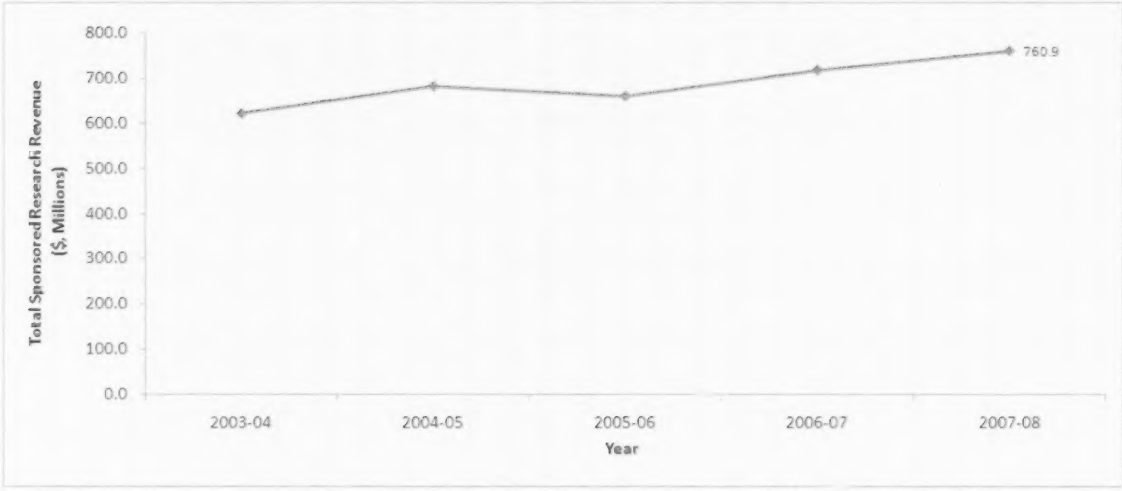
The Alberta Heritage Foundation for Medical Research (AHFMR), which was established by the Government of Alberta in 1980, supports biomedical and health research at Alberta universities, affiliated institutions, and other medical and technology-related institutions. From 2003-04 to 2007-08, AHFMR contributed more than $247.2 million to the health research community in Alberta, which demonstrates Alberta's commitment to supporting excellence in medical research. The AHFMR's contributions to university research are detailed in Figure 7 of this report. As of January 2010, AHFMR has been transitioned to Alberta Innovates – Health Solutions.

Alberta Ingenuity

Alberta Ingenuity was established with an endowment made by the Government of Alberta to create and harness research for a prosperous future. Through funding programs that support the highest caliber science and engineering research, Alberta Ingenuity is building Alberta's capacity for innovation in areas with important social and economic impacts. Between 2003-04 and 2007-08, Alberta Ingenuity invested $74.9 million to support university research, as shown in Figure 8 of this report. As of January 2010, Alberta Ingenuity has been transitioned to Alberta Innovates – Technology Futures.

Total Sponsored Research Revenue

Figure 1

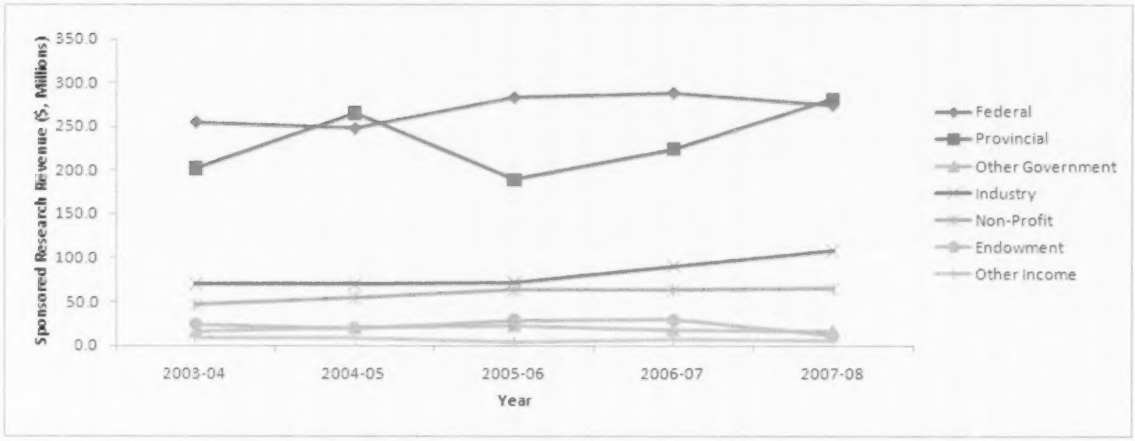


- In 2007-08, Alberta's four comprehensive academic and research institutions received $760.9 million in sponsored research funding, an increase of 5.8% from $719.3 million in 2006-07 and an increase of 22% from $622.9 million four years earlier, in 2003-04.

- From 2003-04 to 2007-08, Alberta's comprehensive academic and research institutions received a total of $3.4 billion in sponsored research funding from all funding sources.

Total Sponsored Research Revenue by Source

Figure 2



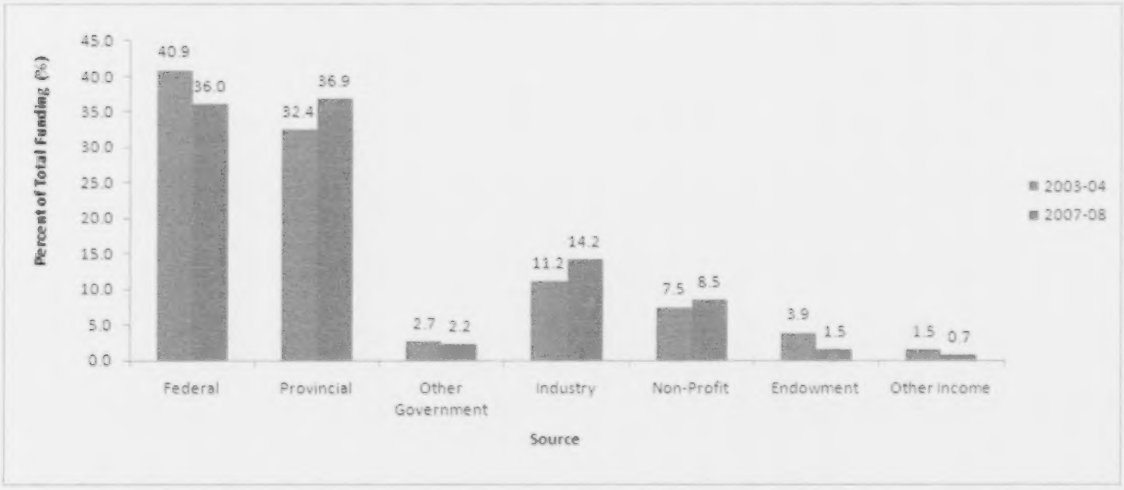
- Funding from federal sources increased by 7.6%, from $254.8 million in 2003-04 to $274.1 million in 2007-08. Between 2006-07 and 2007-08, federal funding decreased by 4.9%, or $14 million. This decrease is mainly attributable to a decrease in funding for research infrastructure from the Canada Foundation for Innovation, as a result of competition cycles.

- Annual funding from provincial sources increased by 39.0% over the 2003-04 to 2007-08 period, rising from $202.0 million to $280.9 million. From 2006-07 to 2007-08, provincial funding sharply increased by 25.5%.

- Funding from industry sources gradually increased by $38.4 million from 2003-04 to 2007-08, an increase of 55.1%. Total non-profit funding increased by 39% or $18.1 million during the same time period. Funding from other government and other income sources remained relatively stable with minor fluctuations from year to year. Funding from endowment sources decreased by 52.7% between 2003-04 to 2007-08.

Proportions of Total Sponsored Research Revenue by Source

Figure 3

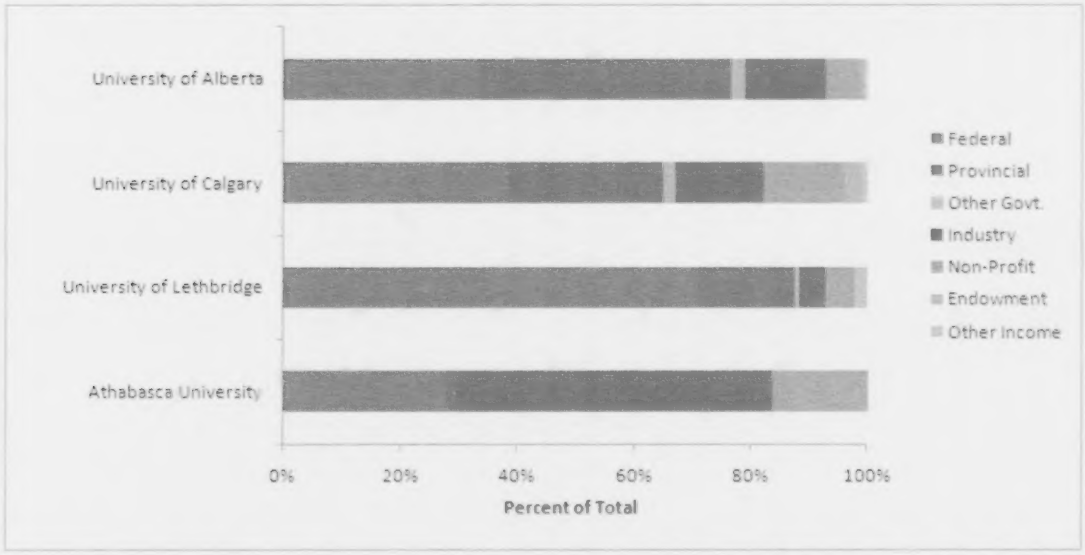


- In comparing 2003-04 to 2007-08, the proportions of research funding from provincial, industry, and non-profit sources have increased. The proportion of research funding from other government sources has been maintained. The proportions of research funding from both federal and endowment sources have decreased during this time period. While the proportion of total research funding provided by federal sources has decreased, the actual funding provided has increased by $19.3 million.

- The amount of funding provided by the Alberta government increased by 25.5 % from 2006-07 to 2007-08. During the same time period, the amount of federal funding for research decreased by 4.9%. In 2007-08, provincial sources contributed the largest proportion of research funding in contrast to 2003-04, when federal sources contributed the greatest proportion.

Sponsored Research Revenue at Individual Institutions By Source

Figure 4



- The University of Alberta received 43.0% of its sponsored research funding from provincial government sources in 2007-08, an increase from 2006-07, when it represented 36.2% of the total. A large portion of the provincial funding, $91.4 million, supported the capital costs associated with the Health Research Innovation Facility. Federal government support of research at the University of Alberta made up 33.6% of the total in 2007-08, down from 2006-07, when it represented 38.1% of the total. While overall funding from the federal tri-council agencies increased, the amount from the federal Canada Foundation for Innovation (CFI) decreased in 2007-08. The decrease in CFI funding is due to the 18 month competitive cycle of their large research infrastructure funding program.

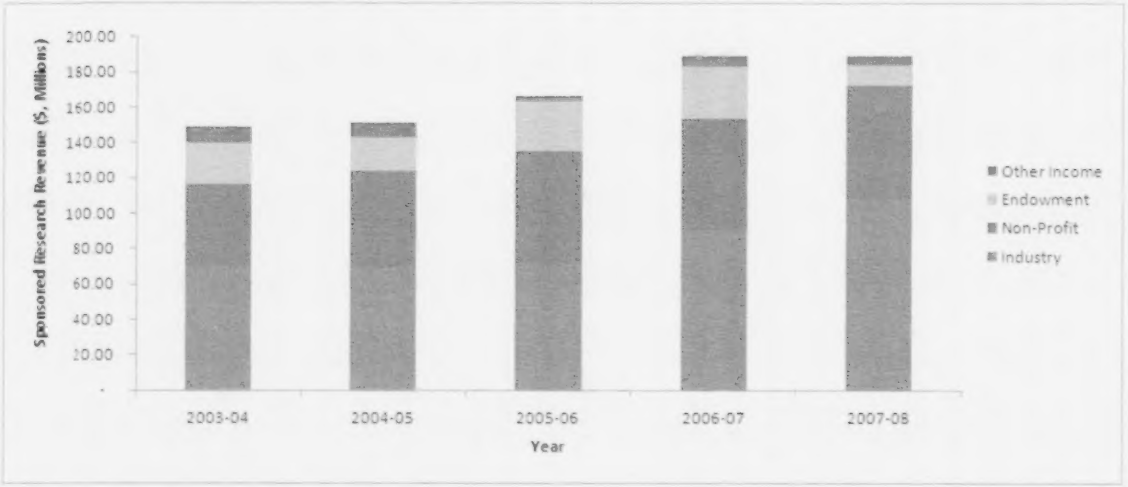
- Funding to the University of Calgary from provincial sources in 2007-08 was 26.7% of its total sponsored research revenue, an increase from 2006-07 when it represented 22.3% of the total. The proportion of sponsored research revenue provided from federal sources represented 38.4% of the total in 2007-08, compared to 42.3% in 2006-07. The main sources of federal funding for the University of Calgary were the NSERC and CIHR research funding agencies in both 2006-07 and 2007-08.

- In 2007-08, the University of Lethbridge received 16.3% of its sponsored research funding from provincial sources, a decrease from 2006-07 when it represented 19.2% of the total. The federal government sources provided 71.1% of the total sponsored research revenue, an increase from the 2006-07 proportion of 66.0%. The value of the research funding provided by industry, non-profit, endowment, other government and other income sources remained fairly constant from 2006-07 to 2007-08; however ,due to growing federal and provincial support, the proportion of the total funding provided by the sum of these sources decreased from 14.8% to 12.6%.

- Athabasca University received 2.0% of its 2007-08 sponsored research funding from the provincial government, higher than in 2006-07 when it represented 0.9% of the total. The greatest proportion (53.9%) of Athabasca University's research funding in 2007-08 was contributed through industry sources, an increase over the previous year when industry sources provided 33.3% of the total sponsored research funding.

Non-Governmental Support for Sponsored Research

Figure 5



- Between 2003-04 and 2007-08, the total funding provided by non-governmental sources to Alberta institutions increased by $39.8 million, an increase of 26.6%, mainly due to increasing contributions from industry and non-profit sources.

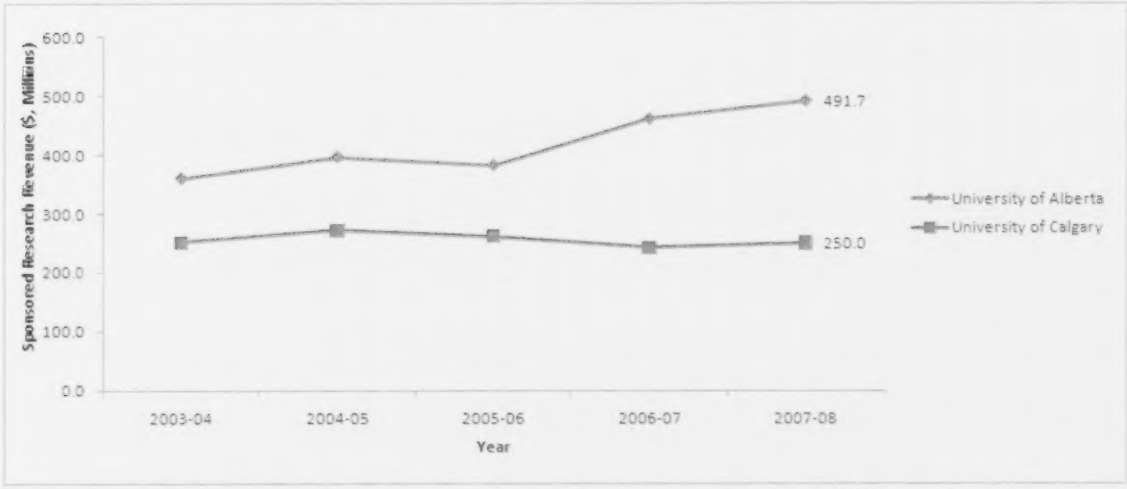
- In 2007-08, industry investment increased by 19.4% over the previous year. The support from industry sources has been variable but shows an upwards trend over the past four years, increasing by $38.4 million since 2003-04.

- The total amount of non-profit sources' investment has gradually increased in the past five years starting at $46.5 million in 2003-04 growing to $64.61 million in 2007-08.

- Funding support for research derived from endowment sources is not necessarily an indicator of the performance of the endowment. The universities report only the portion of the endowment income that is used to support research activities. Endowment income used for activities other than research is not reflected in this report.

Sponsored Research Revenue at Individual Institutions

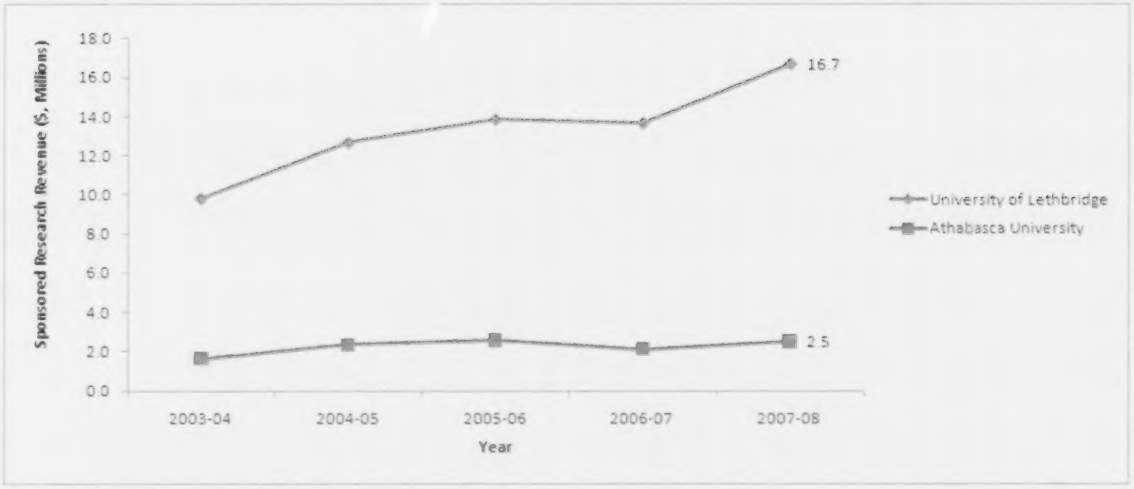
Figure 6A



- In 2007-08, total sponsored research funding to the University of Alberta was $491.7 million, an increase of 36.6% over the 2003-04 level of $360.0 million. The majority of the increase in revenue between 2006-07 and 2007-08 is attributed to the Government of Alberta, which includes $91.4 million for the Health Research Innovation Facility. In 2007-08, the decrease in revenue from federal, non-profit, and endowment sources was offset by an increase in provincial and industry revenue sources, leading to an overall increase of 6.6% from the 2006-07 level.

- In 2007-08, the University of Calgary received $250.0 million in total sponsored research funding, slightly less than the 2003-04 amount of $251.4 million. For the past five years, the level of sponsored research revenue at the University of Calgary has been maintained, with a peak of $271.5 million in 2004-05.

Figure 6B

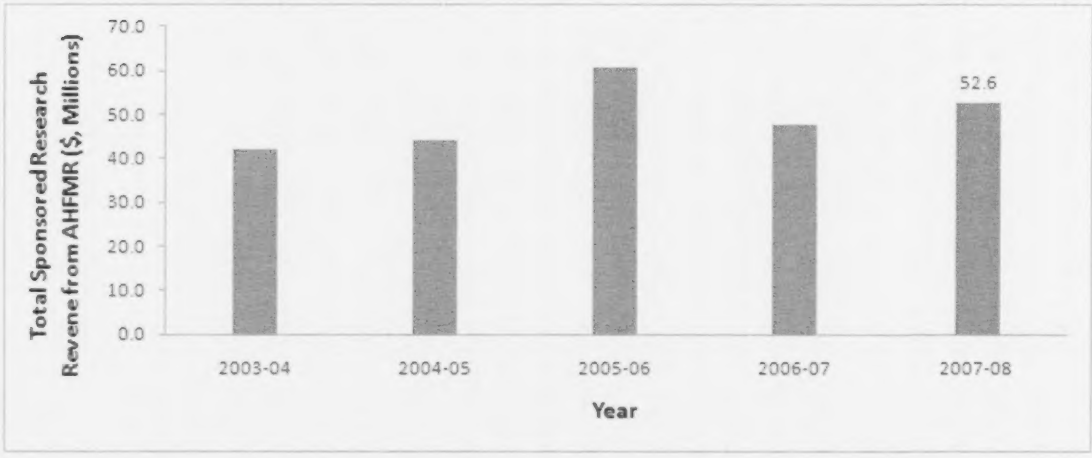


- In 2007-08, total sponsored research funding at the University of Lethbridge was $16.7 million, an increase of $3.0 million over the previous year. Since 2003-04, total sponsored research funding at the University of Lethbridge has increased by 69.7% from $9.8 million to $16.7 million in 2007-08.

- In 2007-08, Athabasca University received $2.5 million in total sponsored research, an increase of approximately $400,000 from 2006-07. The increase is mainly attributed to provincial and industry sources. Since 2003-04, total sponsored research funding at Athabasca University has increased by 52.0%.

Alberta Heritage Foundation for Medical Research (AHFMR)

Figure 7

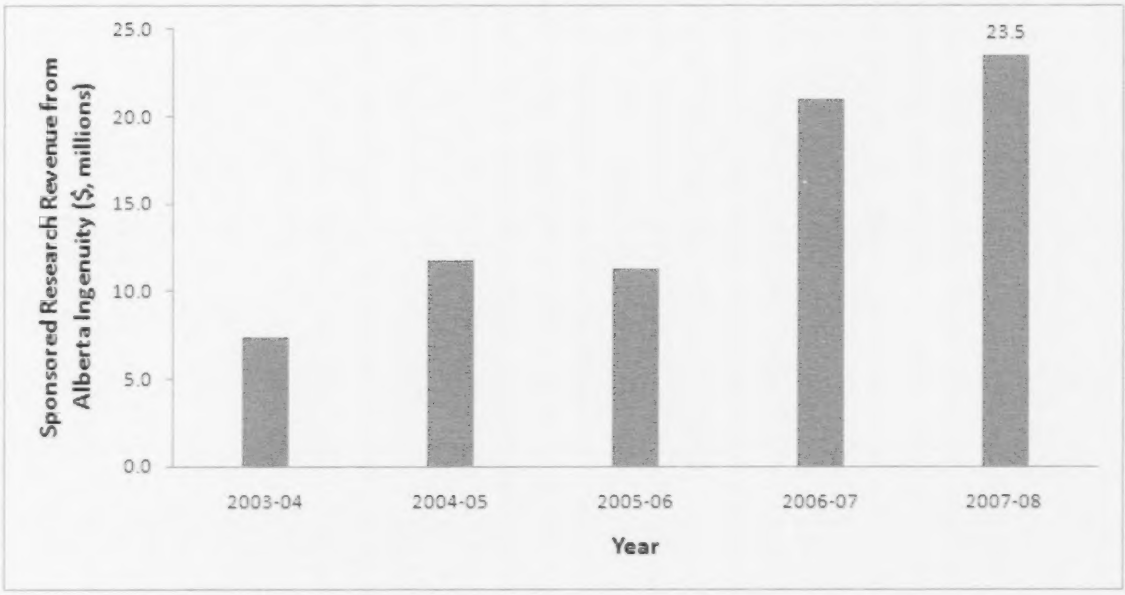


- The Alberta Heritage Foundation for Medical Research (AHFMR) supports and promotes research in Alberta to improve health and thereby the quality of life of Albertans and people throughout the world. The AHFMR provides peer reviewed grants and awards to individuals, institutions, and other entities in the areas of health research, training, and knowledge transfer.[1]
- The AHFMR increased its research contributions to comprehensive academic and research institutions in 2007-08 to a total of $52.6 million, up from $47.7 million in 2006-07.
- The AHFMR has provided a total of $247.2 million in sponsored research revenue to Alberta's comprehensive academic and research institutions since 2003-04.
- As of January 2010, the Alberta Heritage Foundation for Medical Research Endowment supports Alberta Innovates – Health Solutions, which builds on the strengths and successes of the former AHFMR.

[1] Alberta Heritage Foundation for Medical Research. (2009). 2009 Annual Report Edmonton: Author

Alberta Ingenuity

Figure 8



- In 2007-08, Alberta Ingenuity contributed $23.5 million in sponsored research funding to Alberta's comprehensive academic and research institutions, an increase of 12.4% from the amount provided in 2006-07.

- Since 2003-04, annual contributions have tripled, growing from $7.4 million in 2003-04 to $23.5 million in 2007-08.

- In January 2010, the funding and most of the programming associated with Alberta Ingenuity was transitioned to the new Alberta Innovates – Technology Solutions, which builds on the strengths and successes of the former Alberta Ingenuity, the Alberta Research Council, and the iCORE.

Table 1: Summary of All Sources ($, thousands)

Sources	Institution	2003-04	2004-05	2005-06	2006-07	2007-08
Government of Alberta	Alberta	119,467	154,085	101,644	167,124	211,508
	Calgary	79,668	107,537	82,582	54,018	66,645
	Lethbridge	2,353	2,663	4,319	2,627	2,725
	Athabasca	560	463	548	20	50
	Total	**202,048**	**264,748**	**189,093**	**223,789**	**280,928**
Federal Government	Alberta	150,504	149,733	170,509	175,874	165,440
	Calgary	96,946	87,814	102,541	102,387	96,109
	Lethbridge	6,297	8,548	8,008	9,012	11,863
	Athabasca	1,044	1,395	1,742	840	698
	Total	**254,791**	**247,490**	**282,800**	**288,113**	**274,110**
Other Government Jurisdictions	Alberta	13,493	16,332	18,878	11,502	11,361
	Calgary	2,734	2,900	3,322	5,711	5,232
	Lethbridge	432	854	711	466	150
	Athabasca	-	-	-	-	-
	Total	**16,659**	**20,086**	**22,911**	**17,679**	**16,743**
Non-Government Sources (includes industry, non-profit, endowment and other income sources)	Alberta	76,545	76,717	91,779	106,896	103,433
	Calgary	72,031	73,262	73,770	80,005	82,046
	Lethbridge	750	613	819	1,558	1,945
	Athabasca	35	485	286	1,255	1,744
	Total	**149,361**	**151,077**	**166,654**	**189,714**	**189,168**
All Sources	Alberta	360,009	396,867	382,810	461,396	491,742
	Calgary	251,379	271,513	262,215	242,122	250,032
	Lethbridge	9,832	12,678	13,857	13,663	16,683
	Athabasca	1,639	2,343	2,576	2,115	2,492
	Total	**622,859**	**683,401**	**661,458**	**719,296**	**760,949**

Table 2: Government of Alberta Sources ($, thousands)

Sources	Institution	2003-04	2004-05	2005-06	2006-07	2007-08
Alberta Heritage Foundation for Medical Research (AHFMR)	Alberta	21,733	23,909	23,034	25,726	28,329
	Calgary	19,236	19,299	37,215	21,370	23,748
	Lethbridge	987	915	608	590	531
	Athabasca	-	-	-	-	-
	Total	**41,956**	**44,123**	**60,857**	**47,686**	**52,608**
Alberta Ingenuity	Alberta	5,375	6,243	6,188	14,325	15,985
	Calgary	1,779	4,574	3,967	5,660	6,527
	Lethbridge	244	982	1,117	948	1,019
	Athabasca	-	-	-	-	-
	Total	**7,398**	**11,799**	**11,272**	**20,933**	**23,531**
Advanced Education and Technology (AE&T)/ Innovation and Science	Alberta	24,301	27,933	33,283	41,759	44,613
	Calgary	5,611	12,673	22,423	15,613	16,577
	Lethbridge	501	163	2,049	459	481
	Athabasca	-	309	69	-	-
	Total	**30,413**	**41,078**	**57,824**	**57,831**	**61,671**
Capital Initiatives to Support Research Activities[2]	Alberta	60,507	80,353	27,800	40,817	91,400
	Calgary	-	-	-	-	4,900
	Lethbridge	-	-	-	-	-
	Athabasca	-	-	-	-	-
	Total	**60,507**	**80,353**	**27,800**	**40,817**	**96,300**
Other Government of Alberta	Alberta	7,551	15,647	11,339	44,497	31,181
	Calgary	53,042	70,991	18,977	11,376	14,893
	Lethbridge	621	603	545	630	694
	Athabasca	560	154	479	20	50
	Total	**61,774**	**87,395**	**31,340**	**56,523**	**46,818**
All Government of Alberta Sources - Total	Alberta	119,467	154,085	101,644	167,124	211,508
	Calgary	79,668	107,537	82,582	54,018	66,645
	Lethbridge	2,353	2,663	4,319	2,627	2,725
	Athabasca	560	463	548	20	50
	Total	**202,048**	**264,748**	**189,093**	**223,789**	**280,928**

[2] Institutional differences in reporting in this category are due to accounting decisions made at the institutional level. The CAUBO reporting guidelines allow for flexibility to report revenue related to capital as either infrastructure or sponsored research revenue, as deemed appropriate by the institution. Data reported to CAUBO must relate directly to the institution's audited financial statements.

Table 3: Federal Government Sources ($, thousands)

Sources	Institution	2003-04	2004-05	2005-06	2006-07	2007-08
Social Sciences and Humanities Research Council (SSHRC)	Alberta	10,335	9,738	9,038	10,168	11,182
	Calgary	6,597	12,876	10,908	7,525	13,853
	Lethbridge	485	663	769	486	749
	Athabasca	94	186	232	122	100
	Total	**17,511**	**23,463**	**20,947**	**18,301**	**25,884**
Natural Sciences and Engineering Research Council (NSERC)	Alberta	37,931	41,493	38,130	43,426	48,537
	Calgary	19,781	20,641	24,584	23,930	24,873
	Lethbridge	2,176	2,969	2,704	2,963	3,241
	Athabasca	100	106	132	76	7
	Total	**59,988**	**65,209**	**65,550**	**70,395**	**76,658**
Canadian Institutes for Health Research (CIHR)	Alberta	35,369	37,493	36,072	39,896	42,661
	Calgary	29,141	28,727	31,265	31,509	28,555
	Lethbridge	390	437	556	559	701
	Athabasca	-	-	-	-	-
	Total	**64,900**	**66,657**	**67,893**	**71,964**	**71,917**
Canada Foundation for Innovation (CFI)	Alberta	23,009	14,492	28,617	33,803	11,397
	Calgary	17,936	8,709	10,154	14,797	2,706
	Lethbridge	314	1,099	924	1,566	470
	Athabasca	116	280	350	-	27
	Total	**41,375**	**24,580**	**40,045**	**50,166**	**14,600**
Canada Research Chairs Program (CRC)	Alberta	10,099	10,288	13,634	15,026	14,980
	Calgary	5,375	7,275	8,835	5,591	2,100
	Lethbridge	300	625	775	950	1,000
	Athabasca	200	300	375	300	225
	Total	**15,974**	**18,488**	**23,619**	**21,867**	**18,305**

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Table 3: Federal Government Sources ($, thousands) continued...

Sources	Institution	2003-04	2004-05	2005-06	2006-07	2007-08
Indirect Costs Program	Alberta	13,354	14,177	14,722	17,257	17,648
	Calgary	8,478	-	-	11,227	12,537
	Lethbridge	912	1,058	1,174	1,404	1,533
	Athabasca	121	120	125	121	146
	Total	**22,865**	**15,355**	**16,021**	**30,009**	**31,864**
Other Federal	Alberta	20,407	22,052	30,296	16,298	19,035
	Calgary	9,638	9,586	16,795	7,809	11,485
	Lethbridge	1,720	1,697	1,106	1,084	4,169
	Athabasca	413	403	528	221	193
	Total	**32,178**	**33,738**	**48,725**	**25,412**	**34,882**
All Federal Government Sources - Total	Alberta	150,504	149,733	170,509	175,874	165,440
	Calgary	96,946	87,814	102,541	102,388	96,109
	Lethbridge	6,297	8,548	8,008	9,012	11,863
	Athabasca	1,044	1,395	1,742	840	698
	Total	**254,791**	**247,490**	**282,800**	**288,114**	**274,110**

Table 4: Non-Government Sources ($, thousands)

Source	Recipient	2003-04	2004-05	2005-06	2006-07	2007-08
Industry	Alberta	28,327	32,070	37,848	51,221	68,651
	Calgary	41,219	36,936	33,677	38,051	37,338
	Lethbridge	130	229	262	561	751
	Athabasca	-	-	-	704	1342
	Total	**69,676**	**69,235**	**71,787**	**90,537**	**108,082**
Non-Profit	Alberta	24,136	24,282	31,392	32,116	28,869
	Calgary	21,802	29,703	31,405	30,059	34,517
	Lethbridge	533	216	319	634	827
	Athabasca	0	415	205	526	401
	Total	**46,471**	**54,616**	**63,321**	**63,335**	**64,614**
Endowment	Alberta	24,082	19,476	21,438	21,362	2,838
	Calgary	-	-	6,982	8,101	8,542
	Lethbridge	-	-	-	-	-
	Athabasca	-	-	-	-	-
	Total	**24,082**	**19,476**	**28,420**	**29,463**	**11,380**
Other Income	Alberta	0	889	1,101	2,197	3,075
	Calgary	9,010	6,623	1,706	3,794	1,649
	Lethbridge	87	168	238	363	367
	Athabasca	35	70	81	25	1
	Total	**9,132**	**7,750**	**3,126**	**6,379**	**5,092**
All Non - Government Sources - Total	Alberta	76,545	76,717	91,779	106,896	103,433
	Calgary	72,031	73,262	73,770	80,005	82,046
	Lethbridge	750	613	819	1,558	1,945
	Athabasca	35	485	286	1,255	1,744
	Total	**149,361**	**151,077**	**166,654**	**189,714**	**189,168**

Sources for all data: The University of Alberta, Research Services Office; The University of Calgary, Research Services and Research Accounting; The University of Lethbridge, Financial Services; Athabasca University, Office of the Vice-President, Academic.